

Patent Abstracts of Japan

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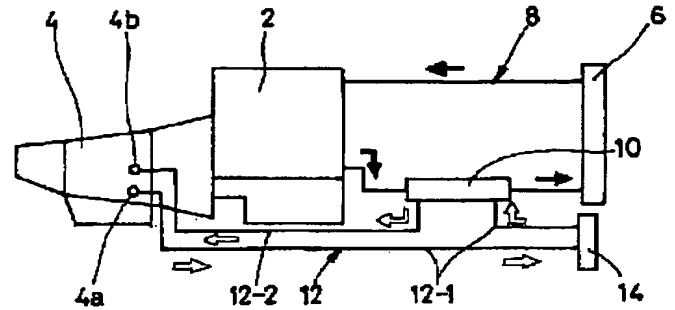
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TITLE : OIL COOLER STRUCTURE OF  
AUTOMATIC TRANSMISSION



ABSTRACT : PROBLEM TO BE SOLVED: To reduce the load of a radiator by mounting an air-cooled oil cooler in an operating lubricant cooling passage in a state that it is mounted in series to a water-cooled oil cooler.

SOLUTION: An oil outlet 4a and an oil inlet 4b are formed on an automatic transmission, and an operating lubricant cooling passage 12 communicating the oil inlet 4a and the oil outlet 4b is mounted. A water-cooled oil cooler 10 is mounted in the operating lubricant cooling passage 12, and an air-cooled oil cooler 14 is mounted in series to the water-cooled oil cooler 10. The air-cooled oil cooler 14 is mounted at an inflow side of the water-cooled oil cooler 10, that is, upstream from the water-cooled oil cooler 10 in the operating lubricant cooling passage 12. Whereby the operating lubricant is cooled at two places of the water-cooled oil cooler 10 and the air-cooled oil cooler 14, and the load of a radiator 6 can be reduced.

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